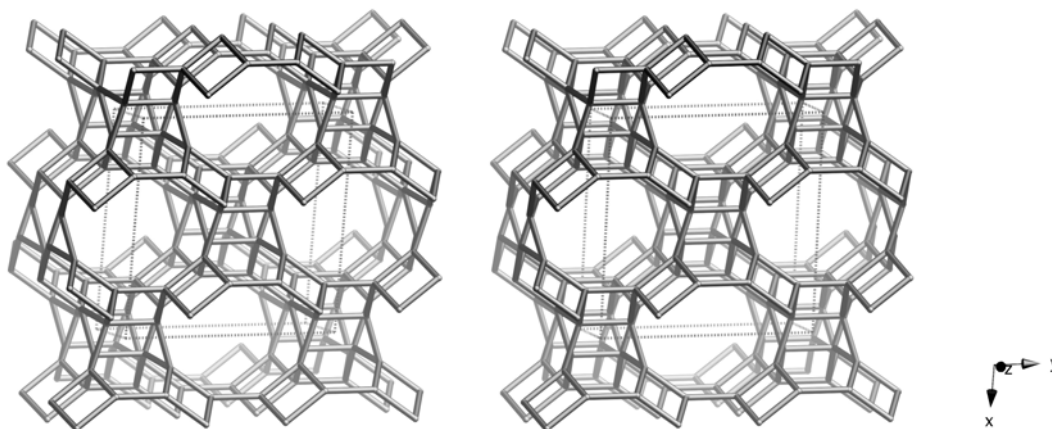


Framework Type Data



framework viewed along [001]

Idealized cell data: monoclinic, $C2/m$, $a = 14.6\text{\AA}$, $b = 12.9\text{\AA}$, $c = 7.6\text{\AA}$, $\beta = 111.2^\circ$

Coordination sequences and vertex symbols:

$T_1(8,1)$	4	10	20	33	51	74	99	128	161	199	$4\cdot4\cdot6\cdot6_2\cdot6\cdot10_4$
$T_2(8,1)$	4	10	19	32	52	74	99	126	162	203	$4\cdot4\cdot6\cdot6_2\cdot6\cdot10_2$
$T_3(8,1)$	4	10	19	33	53	74	96	127	166	201	$4\cdot4\cdot6\cdot6_3\cdot6\cdot6_3$

Secondary building units: 6 or 1-4-1

Composite building units:

bog



lau



Materials with this framework type:

*Laumontite⁽¹⁻⁴⁾

[Co-Ga-P-O]-LAU^(5,6)

[Fe-Ga-P-O]-LAU⁽⁶⁾

[Mn-Ga-P-O]-LAU⁽⁶⁾

[Zn-Al-As-O]-LAU⁽⁷⁾

[Zn-Ga-P-O]-LAU⁽⁸⁾

Leonhardite^(9,10)

Na,K-rich laumontite⁽¹¹⁾

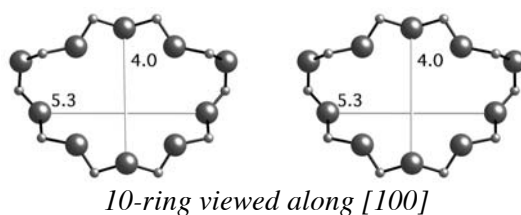
Primary leonhardite⁽¹²⁾

Synthetic laumontite⁽¹³⁾

Type Material: Laumontite

Type Material Data

Crystal chemical data:	$[\text{Ca}_4(\text{H}_2\text{O})_{16}] [\text{Al}_8\text{Si}_{16}\text{O}_{48}]$ -LAU monoclinic, Am , $a = 7.549\text{\AA}$, $b = 14.740\text{\AA}$, $c = 13.072\text{\AA}$, $\gamma = 111.9^\circ$ ⁽³⁾ (Relationship to unit cell of Framework Type: $a' = c$, $b' = a$, $c' = b$, $\gamma' = \beta$)
Framework density:	17.8 T/1000 \AA^3
Channels:	[100] 10 4.0 x 5.3* (contracts upon dehydration)



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